

Profile Page



Name : Dr Suneel Dutt

Designation : Assistant Professor

Department : Physics

Qualification : PhD Physics (Panjab University)
M.Sc. Physics (RDVV, Jabalpur)
B.Sc. Non-medical (HPU, Shimla)
B.Ed. Teaching of Science & Mathematics (Jammu University, Jammu)
CSIR-UGC(JRF) Physics (CSIR-UGC)
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Research Interests :

Charge Parity (CP) Violation, Beyond standard model physics, Detector Development, Collider physics, Hadron physics simulations.

Other Profile Links :

Google Scholar Link :

Suneel Dutt [Click Here](#)

Journal Publications :

Year	Journal	Publication
2013	PHYSICAL REVIEW D 88, 052010	Search for $ZH \rightarrow l\bar{l}b\bar{b}$ Production in 9.7 fb ⁻¹ of pp-bar collisions with the D0 Detector.
2012	Physical review letters 109 (12), 121803	Search for the Standard Model Higgs Boson in $ZH \rightarrow l\bar{l}b\bar{b}$ Production with the D0 Detector in 9.7 fb ⁻¹ of pp-bar Collisions at $s = 1.96$ TeV
2010	Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment Volume 620, Issues 2–3, 11–21 August 2010, Pages 490-517	b-Jet identification in the D0 experiment.

Conference Publications :

Year	Conference	Publication
2021	65th DAE symposium on Nuclear Physics, DAE, Mumbai, 65 2021 583-584	Asymmetric quark matter in (2+1)-flavor Polyakov quark meson model, Nisha Chahal, Suneel Dutt, Arvind Kumar
2020	The 5th international conference on particle physics and Astrophysics., National Research Nuclear University, Mephi, Moscow Engineering Physics Institute, 1690, 012077	Kaons and Antikaons in Multi-Phase Transport Model, Nisha Chahal, Suneel Dutt, Arvind Kumar
2020	Soft Computing: Theories and Applications, 1053, 1291-1302	A Monte Carlo Simulation Study of the Angular Correlations by Using Z+Jets Events at Centre of Mass Energy of 14 TeV, Bharti, M., Sharma, V., Sikander, A., Verma, O.P., Dutt, S.
2020	Soft Computing: Theories and Applications, 1053, 1363-1372	Afzal Sikander, Shiv Sagar Singh, Om Prakash Verma, S. Sathiya, Varun Sharma & Suneel Dutt

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Principal Investigator	Externally Funded	Search for physics beyond standard model at hadron colliders using DZERO and compact muon solenoid (CMS) energies.	Department of Science and Technology			INR 17,79,600/-	Completed	None
Principal Investigator	Externally Funded	CMS upgrade, operation and Utilization	Department of Science and Technology			INR 56,00,000 /-	Completed	None

Events Organized :

Category	Type	Title	Venue	From	To	Designation
Short Term Course (STC)	National	Emerging Fields on High Energy Physics	Department of Physics, NIT Jalandhar	15-07-2019	19-07-2019	Coordinator
Self-sponsored workshop	National	Use of LaTeX in typesetting technical documents.	Department of Physics, NIT Jalandhar through online mode.	31-08-2020	04-09-2020	Coordinator

Short Term Course (STC)	National	Advances in High Energy Physics	Department of Physics, NIT Jalandhar through online mode.	18-09-2020	22-09-2020	Coordinator
Short Term Course (STC)	National	Machine Learning: Theory and Applications (MLTA-2020)	Department of Physics, NIT Jalandhar through online mode.	09-09-2020	13-09-2020	Coordinator
DST sponsored workshop	National	Statistical Techniques for Data Analysis	Department of Physics, NIT Jalandhar through online mode.	22-11-2021	26-11-2021	Coordinator
One day workshop	National	Revision of the course curriculum of B.Tech Physics first year.	Department of Physics, NIT Jalandhar through online mode.	13-08-2020	13-08-2020	Coordinator
Self-sponsored workshop	National	LaTeX for beginners.	Department of Physics, NIT Jalandhar	04-01-2023	08-01-2023	Coordinator
DAE-BRNS sponsored workshop	National	Workshop on Hadron Physics-2023	Department of Physics, NIT Jalandhar	16-01-2023	20-01-2023	Coordinator

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Bipen Singh	Search for Contact Interactions using inclusive Jet P_T spectrum at $\sqrt{s} = 13$ TeV.	Awarded	2020	Professor Suman Bala Beri, Panjab University, Chandigarh
Monika Bharti	The study of Underlying Event activity and two particle Angular Correlation with particles and Z-boson using low pileup data.	Awarded	2020	None
Shalini Thakur	Search for the Excited Leptons in pp collisions at center of mass energy $\sqrt{s} = 13$ TeV.	Awarded	2019	Professor Suman Bala Beri, Panjab University, Chandigarh
Rishika Bhardwaj	Search for heavy Charged Higgs Boson decaying to tb at center of mass energy \sqrt{s} of 13 TeV	Awarded	2018	Professor Suman Bala Beri, Panjab University, Chandigarh

Admin. Responsibilities :

Position Held	Organization	From	To
Deputy Registrar (Finance)	NIT Jalandhar	23-Oct-2018	05-01-2019
Institute Time-Table Co-ordinator	NIT Jalandhar	02-Mar-2021	till date